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-	12	(cheriton and david).in.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/02 10:45
-	5455	@ad<20000831 and (generat$3 adj3 (filter rule)) and (flow bucket netflow microflow)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/02 11:41
-	0	US20010051864A1	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/02 11:26
-	1	"20010051864"	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/02 11:28
-	1	("6243667").PN.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/02 11:28
-	140	@ad<20000831 and ((generat$3 adj3 (filter rule)) near3 (flow bucket netflow microflow))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/02 11:48
-	1	(@ad<20000831 and ((generat$3 adj3 (filter rule)) near3 (flow bucket netflow microflow))) and firewall	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/02 11:49
-	275	@ad<20000831 and ((generat$3 adj3 (filter rule)) near8 (flow bucket netflow microflow))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/02 11:51
-	3	(@ad<20000831 and ((generat$3 adj3 (filter rule)) near8 (flow bucket netflow microflow))) and firewall	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/02 11:51
-	32	@ad<20000831 and netflow	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/02 11:52
-	3	@ad<20000831 and (netflow (flow adj label)) and (generat$3 adj2 filter$3)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/02 11:54
-	134	@ad<20000831 and (netflow (flow adj label))	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/02 11:54
-	98	@ad<20000831 and (netflow (flow adj label)) and network	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/02 13:50
-	2385	@ad<20000831 and (pre adj filter)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/02 13:50
-	3370	@ad<20000831 and (pre adj filter$3)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/02 13:50
-	5	@ad<20000831 and (pre adj filter$3) and firewall	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/02 14:23
-	8	@ad<20000831 and ((pre adj filter) near connection)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/02 14:25

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–	1	@ad<20000831 and (check adj once) and ((packet connection flow) adj2 filter$3)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/02 14:25
–	970	@ad<20000831 and (packet near separat$3) and (flow)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/02 14:26
–	0	@ad<20000831 and (ip adj label$4) and (packet adj3 filter$3)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/02 14:29
–	14	@ad<20000831 and (ip adj label$4)	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/02 14:46
–	4	(("6,339,830") or ("6,070,243") or ("6,061,368") or ("5,768,257")).PN.	USPAT; US-PGPUB; EPO; JPO; IBM_TDB	2004/03/02 14:47

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1 **Analysis and implementation of a transparent priority mechanism fo LAN Internet access**
Giovanardi, A.; Mazzini, G.;
Global Telecommunications Conference, 1999. GLOBECOM '99 , Volume: 3 , 1
Pages:1910 - 1915 vol.3

[Abstract]   [PDF Full-Text (528 KB)]   **IEEE CNF**

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1 Packet classification on multiple fields
Pankaj Gupta, Nick McKeown
August 1999   **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication,** Volume 29 Issue 4

Full text available: 📄 pdf(1.40 MB)   Additional Information: full citation, abstract, references, citings, index terms

Routers classify packets to determine which flow they belong to, and to decide what service they should receive. Classification may, in general, be based on an arbitrary number of fields in the packet header. Performing classification quickly on an arbitrary number of fields is known to be difficult, and has poor worst-case performance. In this paper, we consider a number of classifiers taken from real networks. We find that the classifiers contain considerable structure and redundancy that can ...

2 Motion recovery for video content classification
Nevenka Dimitrova, Forouzan Golshani
October 1995   **ACM Transactions on Information Systems (TOIS),** Volume 13 Issue 4

Full text available: 📄 pdf(2.74 MB)   Additional Information: full citation, abstract, references, citings, index terms

Like other types of digital information, video sequences must be classified based on the semantics of their contents. A more-precise and completer extraction of semantic information will result in a more-effective classification. The most-discernible difference between still images and moving pictures stems from movements and variations. Thus, to go from the realm of still-image repositories to video databases, we must be able to deal with motion. Particularly, we need the ability to classi ...

Keywords: MPEG compressed video analysis, content-based retrieval of video, motion recovery, video databases, video retrieval

3 Corrigenda: a hierarchy-aware approach to faceted classification of object-oriented components
E. Damiani, M. G. Fugini, C. Bellettini
October 1999   **ACM Transactions on Software Engineering and Methodology (TOSEM),** Volume 8 Issue 4

Full text available: 📄 pdf(310.50 KB)   Additional Information: full citation, abstract, references, index terms

This article presents a hierarchy-aware classification schema for object-oriented code, where software components are classified according to their behavioral characteristics, such as provided services, employed algorithms, and needed data. In the case of reusable application frameworks, these characteristics are constructed from their model, i.e., from the description of the abstract classes specifying both the framework structure and purpose. In conventio ...

4 A hierarchy-aware approach to faceted classification of objected-oriented components
E. Damiani, M. G. Fugini, C. Bellettini
July 1999   **ACM Transactions on Software Engineering and Methodology (TOSEM),** Volume 8 Issue 3

Full text available: 📄 pdf(310.25 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

This article presents a hierarchy-aware classification schema for obje ct-oriented code, where software components are classified according to their behavioral characteristics, such as provided services, employed algorithms, and needed data. In the case of reusable application frameworks, these characteristics are constructed from their model, i.e., from the description of the abstract classes specifying both the framework structure and purpose. In conven ...

Keywords: code analysis, component repositories, component retrieval, software reuse, user feedback

5 Performance analysis of distributed applications using automatic classification of communication inefficiencies

Jeffrey Vetter
May 2000   **Proceedings of the 14th International conference on Supercomputing**

Full text available: 📄 pdf(1.20 MB)   Additional Information: full citation, abstract, references, citings, index terms

We present a technique for performance analysis that helps users understand the communication behavior of their message passing applications. Our method automatically classifies individual communication operations and it reveals the cause of communication inefficiencies in the application. This classification allows the developer to focus quickly on the culprits of truly inefficient behavior, rather than manually foraging through massive amounts of performance data. Specifically, we trace t ...

6 ACTION: automatic classification for full-text documents

Jacqueline W. T. Wong, W. K. Kan, Gilbert Young
April 1996   **ACM SIGIR Forum**, Volume 30 Issue 1

Full text available: 📄 pdf(912.99 KB)   Additional Information: full citation, abstract, citings, index terms

An important step in building up the document database of a full-text retrieval system is to classify each document under one or more *classes* according to the *topical domains* that the document discusses. This is commonly referred to as *classification. Automatic classification* attempts to replace human classifiers by using computers to automate this process. Automatic classification has two major components: (1) the *classification scheme* which defines the available cla ...

Keywords: automatic classification, document analysis, full-text retrieval systems, information retrieval systems

7 High-speed policy-based packet forwarding using efficient multi-dimensional range matching

T. V. Lakshman, D. Stiliadis
October 1998   **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '98 conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 28 Issue 4

Full text available: 📄 pdf(1.82 MB)   Additional Information: full citation, abstract, references, citings, index terms

The ability to provide differentiated services to users with widely varying requirements is becoming increasingly important, and Internet Service Providers would like to provide these differentiated services using the same shared network infrastructure. The key mechanism, that enables differentiation in a connectionless network, is the packet classification function that parses the headers of the packets, and after determining their context, classifies them based on administrative policies or re ...

8 Router plugins: a software architecture for next-generation routers

Dan Decasper, Zubin Dittia, Guru Parulkar, Bernhard Plattner
February 2000   **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 1

Full text available: 📄 pdf(530.34 KB)   Additional Information: full citation, references, citings, index terms

Keywords: communication system routing, communication system security, internet, modular computer systems

9 Router plugins: a software architecture for next generation routers

Dan Decasper, Zubin Dittia, Guru Parulkar, Bernhard Plattner
October 1998   **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '98 conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 28 Issue 4

Full text available: 📄 pdf(1.82 MB)   Additional Information: full citation, abstract, references, citings, index terms

Present day routers typically employ monolithic operating systems which are not easily upgradable and extensible. With the rapid rate of protocol development it is becoming increasingly important to dynamically upgrade router software in an incremental fashion. We have designed and implemented a high performance, modular, extended integrated services router software architecture in the NetBSD operating system kernel. This architecture allows code modules, called *plugins*, to be dynamically ...
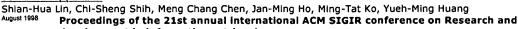
Keywords: high performance integrated services routing, modular router architecture, router plugins

10 The proposed new Computing Reviews classification scheme

Anthony Ralston
July 1981   **Communications of the ACM**, Volume 24 Issue 7

Full text available: pdf(872.02 KB)   Additional Information: full citation, citings, index terms

11 Extracting classification knowledge of Internet documents with mining term associations: a
semantic approach
Shian-Hua Lin, Chi-Sheng Shih, Meng Chang Chen, Jan-Ming Ho, Ming-Tat Ko, Yueh-Ming Huang
August 1998   **Proceedings of the 21st annual international ACM SIGIR conference on Research and
development in information retrieval**
Full text available: pdf(1.02 MB)   Additional Information: full citation, references, citings, index terms

12 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997   **Proceedings of the 1997 conference of the Centre for Advanced Studies on
Collaborative research**
Full text available: pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-
time diagrams are often used to obtain a better understanding of the execution of the application. The
visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these
diagrams are often very complex and do not provide the user with the desired overview of the
application. In our experience, such tools display repeated occurrences of non-trivial commun ...

13 Formal Models for Computer Security
Carl E. Landwehr
September 1981   **ACM Computing Surveys (CSUR)**, Volume 13 Issue 3
Full text available: pdf(2.86 MB)   Additional Information: full citation, references, citings, index terms

14 Toward boxology: preliminary classification of architectural styles
Mary Shaw, Paul Clements
October 1996   **Joint proceedings of the second international software architecture workshop (ISAW-
2) and international workshop on multiple perspectives in software development
(Viewpoints '96) on SIGSOFT '96 workshops**
Full text available: pdf(790.99 KB)   Additional Information: full citation, references, citings, index terms

15 A multilevel approach to intelligent information filtering: model, system, and evaluation
J. Mostafa, S. Mukhopadhyay, M. Palakal, W. Lam
October 1997   **ACM Transactions on Information Systems (TOIS)**, Volume 15 Issue 4
Full text available: pdf(610.01 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

In information-filtering environments, uncertainties associated with changing interests of the user and
the dynamic document stream must be handled efficiently. In this article, a filtering model is proposed
that decomposes the overall task into subsystem functionalities and highlights the need for multiple
adaptation techniques to cope with uncertainties. A filtering system, SIFTER, has been implemented
based on the model, using established techniques in information retrieval and artificia ...

Keywords: automated document representation, information filtering, user modeling

16 Another nail to the coffin of faceted controlled-vocabulary component classification and retrieval
Hafedh Mili, Estelle Ah-Ki, Robert Godin, Hamid Mcheick
May 1997   **ACM SIGSOFT Software Engineering Notes , Proceedings of the 1997 symposium on
Software reusability**, Volume 22 Issue 3
Full text available: pdf(1.37 MB)   Additional Information: full citation, references, citings, index terms
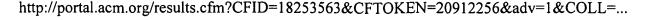
17 The computation of optical flow
S. S. Beauchemin, J. L. Barron
September 1995   **ACM Computing Surveys (CSUR)**, Volume 27 Issue 3
Full text available: pdf(3.06 MB)   Additional Information: full citation, abstract, references, citings, index terms

Two-dimensional image motion is the projection of the three-dimensional motion of objects, relative to a
visual sensor, onto its image plane. Sequences of time-orderedimages allow the estimation of projected

two-dimensional image motion as either instantaneous image velocities or discrete image displacements. These are usually called the optical flow field or the image velocity field. Provided that optical flow is a reliable approximation to two-dimensional ...

[18] Adaptive resource management for flow-based IP/ATM hybrid switching systems

Hao Che, San-qi Li, Arthur Lin
October 1998   **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 5

Full text available: pdf(570.85 KB)   Additional information: full citation, references, index terms

Keywords: adaptive resource management, cut-through switching, flow cache management, flow classification, flow-based IP/ATM hybrid switching

[19] Picture Processing by Computer

Azriel Rosenfeld
September 1969 **ACM Computing Surveys (CSUR)**, Volume 1 Issue 3

Full text available: pdf(2.69 MB)   Additional information: full citation, references, citings, index terms

[20] Classifying load and store instructions for memory renaming

Glenn Reinman, Brad Calder, Dean Tullsen, Gary Tyson, Todd Austin
May 1999 **Proceedings of the 13th International conference on Supercomputing**

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